

Appl. No. 09/752,507  
Amdt. Dated Oct. 29,2003  
Reply to Office Action of July 31, 2003

### Amendments to the Claims


This listing of claims will replace all prior versions, and listings, of claims in the application:

### Listing of Claims

Claim 1 (currently amended): In an electronic device which has a housing and a cover movable between a closed position and an open position with respect to the housing, an unfolding apparatus for automatically opening the cover with respect to the housing, the unfolding apparatus comprising:

a first means for creating a first magnetic field, the first means being adapted to be provided in the housing of the electronic device;

a second means for creating a second magnetic field, the second means being adapted to be provided in the cover of the electronic device and be opposite to the first magnetic field when the cover is in the closed position; and

 a controller for ~~controlling at least one of the first and second means~~ electrically connecting the first means with a power source of the electronic device, the controller being adapted to be provided in at least one of the housing and the cover; wherein

when the first means is electrically activated by the power source, a magnetic field is created around the first means, and magnetic field repels the second means, whereby ~~the first and second magnetic fields interact to move the cover~~ is moved from the closed position to the open position.

Claim 2 (cancelled)

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Claim 3 (original): The unfolding apparatus in accordance with claim 1, wherein the first means for creating the first magnetic field comprises an electromagnetic coil.

Claim 4 (original): The unfolding apparatus in accordance with claim 1, wherein the second means for creating the second magnetic field comprises a magnet.

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Claim 5 (currently amended): The unfolding apparatus in accordance with claim 1, wherein the controller comprises an operator, a movable contact abutting against a lower face of the operator, and a stationary contact, and both the movable contact and the stationary contact are respectively connected with circuitry between the first means and the power source. ~~the controller comprises a movable contact and a stationary contact, and the movable contact and stationary contact are normally in an open state.~~

Claim 6 (currently amended): A portable communication device comprising:  
a housing having a keypad;  
a cover attached to the housing by a hinge, the cover being movable between a closed position and an open position with respect to the housing;  
a first means for creating a first magnetic field, the first means being adapted to be provided in the housing;  
a second means for creating a second magnetic field, the second means being adapted to be provided in the cover and be opposite to the first magnetic field when the cover is in the closed position; and

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a controller having a pair of first movable and first stationary contacts respectively and a pair of second movable and second stationary contacts respectively, the pair of first contacts being connected to a power source of the device and thereby controlling at least one of the first and second means, the pair of second contacts serving as contacts of an answering switch of the communication device, controlling answering of incoming messages of the device, and the controller being provided in at least one of the housing and the cover; wherein

when the movable contacts are pressed by the controller to contact the stationary contacts, a magnetic field is created around the first means to repel the second means, and the answering switch is activated, whereby the cover is moved from the closed position to the open position for answering by a user.

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Claim 7 (cancelled)

Claim 8 (original): The portable communication device in accordance with claim 6, wherein the first means for creating the first magnetic field comprises an electromagnetic coil.

Claim 9 (original): The portable communication device in accordance with claim 6, wherein the second means for creating the second magnetic field comprises a magnet.

Claim 10 (currently amended): The portable communication device in accordance with claim 6, wherein the controller comprises an operator, a movable contact abutting against a lower face of the operator, and a stationary contact, and both the movable contact and the stationary contact are connected with circuitry

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~~between the first means and the power source, respectively the first and second pairs of contacts are each normally in an open state.~~

Claim 11 (currently amended): An electronic device comprising:  
a housing having a keypad;  
a cover attached to the housing by a hinge;  
a first means for creating a first magnetic field, the first means being adapted to be provided in the housing;

a second means for creating a second magnetic field, the second means being adapted to be provided in the cover and be opposite to the first magnetic field when the cover is in a closed position; and

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a controller for creating at least one of the first and second magnetic fields to thereby control magnetic force between the first and second magnetic fields, the controller being provided in at least one of the housing and the cover; wherein

when the first means is electrically activated by a power source of the electronic device under the action of the controller, a magnetic field is created to repel the second means away from the closed position.

Claim 12 (cancelled)

Claim 13 ( original): The electronic device in accordance with claim 11, wherein the first means for creating the first magnetic field comprises an electromagnetic coil, and the second means for creating the second magnetic field comprises a magnet.

Claim 14 (currently amended): The electronic device in accordance with claim 11, wherein the controller comprises an operator, a movable contact abutting

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against a lower face of the operator, and a stationary contact, and both the movable contact and the stationary contact are connected with circuitry between the first means and the power source~~the controller comprises at least one movable contact and at least one stationary contact.~~

Claim 15 (cancelled)

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Claim 16 ( currently amended): A cellular phone comprising:  
a housing and a cover ~~rotatably~~rotatably attached to the housing;  
a controller positioned in the housing and activated, directly or indirectly, by a button,~~said controller activating circuits to create inducement;~~ and  
a device mounted on the cover ~~actuated by said inducement to rotatably move the cover relative to the housing; wherein~~  
said controller activates circuits to create a magnetic field to repel said device, which in turn rotatably moves the cover from a closed position to an open position.

Claim 17 (original): The cellular phone in accordance with claim 16, wherein said device is a permanent magnet.

Claim 18 (original): The cellular phone in accordance with claim 16, wherein said ~~inducement~~magnetic field is ~~performed~~created by an ~~electro magnet~~electromagnet.

Claim 19 (new): The cellular phone in accordance with claim 16, wherein no spring force is provided to encounter or be encountered by said magnetic field.